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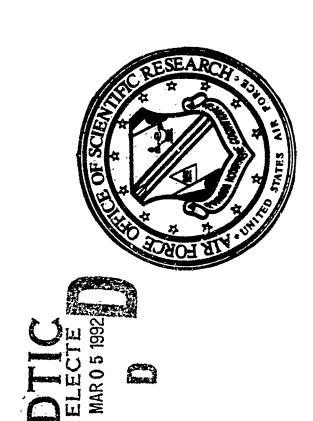
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RESEARCH PROPOSAL QUARTERLY STATUS REPORT



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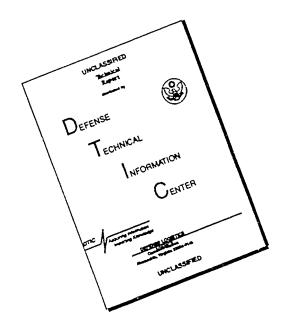
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RESEARCH PROPOSAL

QUARTERLY STATUS REPORT

JULY 1991

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INTRODUCTION

The Research Proposal Quarterly Status Report is published in March, June, September, and December by the Air Force Office of Scientific Research (AFOSR). It lists all the research proposals received by AFOSR in the previous six months along with the action taken (Initiated, Declined or Withdrawn) on each report.

The report is divided into two parts. The Institution index lists proposals alphabetically by institution. is followed by a more detailed listing by Directorate, and by Program Manger within the Directorate.

URPOSE

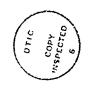
Readers must keep in mind that declined proposals should not necessarily be This report is designed to inform other Government sponsoring agencies of the proposals received by the AFOSR and considered as scientifically unacceptable; many declinations result from a lack of funds or as a result of the action taken on these proposals. special programmatic emphasis.

AFOSR MISSION

The AFOSR is organized under the Air Force Systems Command, DCS/Technology. The Air Force Office of Scientific Research (AFOSR) is the single manager of the Air Force Defense Research Sciences Program (Program Element 61102F) and the primary Air Force agency for the extramural support of fundamental scientific research.

Research is selected for support from proposals received in response to the Broad Agency Announcement from scientists investigating problems involving the search for new knowledge and the expansion of scientific principles. Selection is on the basis of scientific potential for improving Air Force operational capabilities originality, significance to science, the qualification of the principal investigators, and the reasonableness AFOSR awards grants and contracts for research in areas of science relevant to the needs of the Air Force. the proposed budget.

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KEY TO READING THE DATA

TITLE - The title of the research proposal

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AND CONTRACTOR OF THE PROPERTY OF THE PARTY OF THE PARTY

INSTITUTION - The organization, (e.d., college/university, company) at which the research will be conducted.

INVESTIGATOR - The Principal Investigators proposing the research

TYPE - N indicates a new research effort. - R indicates a continuation of an ongoing research effort.

MONTHS - The duration of the research proposal

RECEIVED - The month and year in which the AFOSR received the proposal

AMOUNT - The funds requested of the AFOSR for support of the research proposal

STATUS - A = ACCEPTEO indicates that the review has been completed and the proposal

be funded by recommended for funding. - D = DECLINED indicates the proposal has been reviewed but will not the AFOSR.

- BLANK SPACE = indicates the proposal is being reviewed. - $\mathbf{W} = \mathbf{WITHDRAWN}$ indicates that the proposal submitted was removed from further

consideration at the proposers request.

PROGRAM MANAGER - The AFOSR scientific staff member assigned the responsibility for the technical evaluation of the proposal.

- An AFOSR Directorate assigned control number to uniquely identify the research PROPOSAL # proposal

INITIATE - The proposal has been recommended to the AFOSR Directorate of Contracts for the amount and duration.

START DATE - The recommended date for commencement of the research.

TOTAL AMOUNT - The estimated number of dollars recommended for support of the research effort; the actual amount is subject to negotiation.

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EFFECTS OF NORMJARIC & HYPTRIARIC OXYGIN ON SURVIVAL, REGIONAL BLOOD FLOW & TISSUE OXYGEN TLUSION IN A-MOGRYADIC SHOCK IN AATS LADY Davis Curmel Hosextal	N 711 88	* = 0	A OWENS 91-EX-017	\$48,319 01/09/91 \$83,619
IONOSPHERIC STRUCTUPE OVER YORTHERN BUROPE Univ College of Wales	N 057 113 p.:-a	N 36 05/06/91 \$170,351	A OWENS 91-EX-015	\$52,797 01/08/91 \$170,351
STUDY OF TROPOSHERIC MODIFICATION Rutherford & Apolaton Laboratories Crain	N 05/ Kenneta \$6	N 24 05/06/91 \$63,000	A OWENS 91-EX-016	\$31,500 01/09/91 \$63,000
COLLAPOPATIVE RESTARCH ON AIRCRAFT ICING AND CHARGING PROCESSES IN ICE Univ of Manchester Inst of Sci & Tech Saunders	N 17/0 Clive \$15	N 24 17705791 \$15,000	A OWENS 91-EX-014	\$7,500 01/09/92 \$15,000
OYNAMICAL INSTANILITIES, CHAOS, AHO SPATIAL COMPLIXITY IN FUNDA— Mental Honlinfar Optical Interactions Heriot-Watt University	N 18/0 Robert \$183	N 36 18/04/91 \$183,383	A OWENS 91-EX-013	\$53,144 01/07/91 \$183,383
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Areson	9010	03/05/91 \$66 ₀ 053	80LAND 91-X0-021	01/09/91 \$66.053
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Delvecchio	Vito	06/05/91 \$41,425	80LAND 91-x0-022	03/06/91
ION INTERACTIONS WITH MOLECULES		8 12	∢	\$30,646
Millor	Thosas	13/05/91 \$106,826	BOLAND 91-X0-023	01/06/91 \$106,826
SPACECRAFT THERMAL CONTROL COATING PIGMENTS		60 2	⋖	\$10,851
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EFFECTS ON +62 TOLEGANCE IN HUMANS		R 12	∢	\$10.483
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Univ of New Mexico	Moore	Gerald	01/04/91 \$24,849	BOLAND 91-X0-017	\$24.849 01/05/91 \$60.314
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	PECHTYED PROGRAM MAI	32 A 6/91 BIRKAN -000 91-NA-19	80₹	V 26 20/06/91 MCMICHAEL \$014,370 91-NA-20	N 36 4 21/06/91 TISHKOFF *232,272 91-NA	9 24 A A A 21.06.91 HCMICHAEL 91-NA-23	4 36 27/06/71 507CE .278,500 91-NA-20	N 24 D 30/04/91 SAKELL 5238,228 91-NA-14	H 04 A 29/04/91 SAKELL 57,100 91-NA-14	24 A 30/05/71 SAKELL 537,345 91-NJ
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NEACTION SATE EMBLARGPING 400 LG OF PATTODE CLASK STORY		4 K		
Kozin, Bogdinoff i Airveistor inc	John	25/04/71 \$339,130	90YCE 91-NA-144	
TH: THISTSETM INTERNATIONAL COLLODOUM ON EXCIPTUS OF XPLOSIOUS NO PRACTIVE SYSTIMS Above Seasing Sention	B-C = 0 0 0 0 0 0 0	11 03 12/06/91 64,000	A TISHKOFF 91-NA-195	\$4.000 01/07/91 \$4.000
ADDITIVE FURAULEHF DECOMPOSITION OF THE INCOAPRISSIBLE AND COMPATSSIBLE WAVETTHETONES FOURTIONS UNAVER THE CONFIDER ACCOUNTS	دە∈دل	4 24 16/04/91 195,346	A SAKELL 91-NA-138	\$47,093 01/11/91 \$96,346
ATUMIC AND MOLCOLMS PROCTOF, STACOMPANYING OCFOUMATION AND PRACTURE OF ASTALMSFRAMIC LYTTERACTS WOOMEN State Interprety	J Thomas	4 24 11/06/91 4113,069	A WU 91-NA-194	\$5,000 15/09/91 \$55,000
MICTOMECHANICS AND GUNSTITUTIY: MODELIN: DR JEANULAR ANT.RIALS IN SPRESS REVERSAL IND CYCLIT LOADING Univ of Colifornise for Origo	sisvouche	4 36 16/40/71 \$34,404	80YCE 91-NA-123	
MICHAULCS. TRANSPORT PROPERTING AND STATISTICAL PHYSICS DE PRANCLAR MEDIA AND GEOMATARIALS UNAV OF CILIFORNIS SON DEPO	. c L	4 25/06/91 \$265•994	A BOYCE 91-NA-206	\$85,362 01/10/91 \$265,994
(N-SITU STRUCTUR: AND INTERFACE STUDIES OF PAOSPANTS—1)NATD GOAPOSITGS (PAG) Impokhiven Hittorik Liboritorv	foshi funa	4 24 04/06/91 \$50.000	A WU 91-NA-185	\$25,000 01/09/91 \$50,000
CHARACTERIZATION)? MASI-Pixionicity ti vottix «Lows ingrala fich foilten Carnorition	חיחיץ קנץ	42 24 14 15 15 15 15 15 15 15 15 15 15 15 15 15	D SAKELL 91-NA-163	
PLOWFIELD DENSITY JEASURLY, WITH A LISTA GOLDDINAMIC HOCUSING ACALLY AND STATUL HOCUSING ACALLY AND STATUL HOCUSING TOPPART STATUL UNIVORTITY	נחכנף	N 36 23/24/91 \$223,014	0 SAKELL 91-NA-141	

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FITLE (COME.)		,	TYPEZMONTHS ALCEIVON	STATUS Program Manager	INITIATE Start date
LVSTITUTION	14V 11104104		AMOUNT	PROPOSAL #	TOT AMT
MICROSTRUCTURE AND MACROSCOPIC SEMAVIOR OF	PANDIM HETTROSENEDUS		36		
forth Carolino State University	Torquito	Salvatora	5348,245	301C= 91-NA-145	
FMC USE OF ACTIVE SURFACE CMARGES FOR STRUCTURAL	TURAL SHIPS CONTROL		N 36	;	
iorth Carolina State University	·	Gordon X n	31705791 \$412,379	WU 91-NA-184	
STATIC AND FATISUE DAMAGE IN HISH TEMPSTATURE	SILISOAKLD ER		N 36	. !	
henssolaor Polyticanic instituto	אישסבי	ebloes	15, 44,731 5397, 436	80YCE 91-NA-134	
CONTROL OF TURSTING EVENTS TEEN A FURBULENT OF	JOUTONEY LAYER		90 j		
JALV of Notes Jane	5+4-10-5+6	Мовевей	20/05/91	MCMICHAEL 91-NA-174	
NEGART TRAINLESHIDS			N 12	ব	\$179,135
Ponnsylvania State University	Santavices	Souvenic	27/05/91 \$179,125	TISHKUFF 91-NA-161	15/08/91
SHI KI NOITALIO	ENITZATION AND GROATH OF		36	2 4 8 6	
Consolitor instructions of senses ly	Santavices	0	1260261	91-NA-171	
COMMAIN PROCTOSES IN FERMOFLICIATS CIRAMICS			N 24	⋖	\$62,100
sennsylvanis State University	8 % C & C	9140	23/05/91 \$139,350	91-NA-177	01/09/91 \$139,850
LILUID MOOR COMBUSTION STABILLITY USING COAXIAL	IAL IMUSCIDAS		4 15	≪ 4 3 6 6	\$60,000
"ennsylvani" State University	Vicci	Michiel	157,007,1	91-NA-201	\$60,000
CAPTAPTS RESTANCE FOR ADVANCES ALSEAT PUSING	INT STRUCTURES AT TEKAS		4	ब्द्र । ।	\$161,224
Texas A and a forwarch Toundation	Vance	٦	05/05/91 \$151,224	307CE 91-MA-160	15.08/91 \$161,224

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FITLE (CONT.) INSTITUTION	INVESTERATOR	¥*	TYPE/MONTHS ACCEIVED AMOUNT	STATUS Program manager Proposal #	INITIATE START DATE TOT AMT
FAILURE ANALYSIS OF UNIDIRECTIONAL CARCON FINE COMPOSITIS AT ELEVATED TEMPERATUPES UNDIR LIXMAL STRESS CONDITIONS Oregon Graduate Lenter For Study & Resen Kumosa	N FIDRE COMPOSITIS TESTIO STRESS COMDITIONS Kumosa	-	N 36 05/06/91 5246,170	90YCE 91-NA-191	
CHAOS-ENHANGED TRANSPORT IND IJGREGATION IN CHADII Horthwestern University	IN CHADIIC FLONG Ottino	7 M W	4 30/04/91 5332,441	ACMICHAEL 91-NA-150	\$103,798 01/10/91 \$379,441
THREE-JIMENSIONAL CRACK GROUTH AND STACTLITY JITH AF GOMPOSITE MATERIALS AND THE GIOPHYSICAL ENVIRONMENT Horthwestern University.	LITY JITH APPLICATION TO ENVIRONMENT (SOUR NOT COOL)	જ ને લે	4 36 15/05/91 \$3£0 ₉ 033	BOYCE 91-NA-170	
ANALYSIS OF FINITE REYNOLDS NUMBER DYNAMIC United Technologies Research Center	IC STALL Signett Mark	æ Ö ₩	N 36 01/04/91 \$135,000	FANT 91-NA-120	
INTERAGENCY PROPULSION COMMITTEE Office of Naval Research	Venuto Thomas	·	u 64 35/06/91 420,000	A TISHKOFF 91-NA-187	\$20,000 01/06/91 \$20,000
PERTURGED SUPEPSONIC TURBULINI 300HDARY LAYERS Jhio State Univ Research Foundation	Sammay dohemmad		N 24 23704/91 \$128+756	A SAKELL 91-NA-147	\$80.000 01/09/91 \$128,756
SXPERIMENTAL & THEOPETICAL INVESTIBATIONS IN NANUS MATERIALS & COMPUSITIS MATERIALS & COMPUSITIS Michigan Technological University	. IN HANUSTPUGTYAAL Aifants		N 36 16/05/91 8499,023	A 80YCE 91-NA-172	\$134,335 15/09/91 \$420,663
A COMPUTATIONAL STUDY OF AIRFOILS AND WINDS SUPFACES USING SOLUTION ADAPTIVE HESHES Univ of Cincinnati	SS ATTH MOVALLE COMPRISE Drivers Paul	N 16	36 16794791 3127•529	D SAKELL 91-NA-137	
ANS PRECEDURES FOR SHOCK-HOUNDARY LAYER AND JASTL.OY VISCOUS INTTRACTIONS Univ of Cincinnati	NJ JASTELDY VISCOUS FLIA Rubin		4 36 14/05/91 .223,917	0 SAKELL 91-NA-168	

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TITLE (CONT.) INSTITUTION	**************************************		TYPE/MONTHS RLCEIVED AMOUNT	STATUS Program Manager Proposal #	INITIATE Start date Tot amt
FULLS COMBUSTION RESEARCH			4 36	⋖	\$297,361
Princeton University	t unesce to	77.73	34704791 \$698,334	TISHKOFF 91-na-129	30/09/91 \$698,934
STUDIES OF HYPEPSONIC BOUNDARY LAY'R	SCHAVIOS		ч 36		
Princeton University	Salts		36/05/91 3636,592	SAKELL 91-NA-155	
FUNCTNG FOR FOUR AFRART STUDENT TRAINERS	VECS FOR ACADIMIC YEAR 1991-		11 12	⋖	\$128,280
Princeton University	٦.		07/05/91 \$128,280	TISHKOFF 91-NA-162	01/09/91 \$128,280
MESH GENERATION AND PLOW PREDICTION FOR	FOR COMPLIX SFONETRIES		30	0	
Princeton University	3aker T	٠-٦	10/06/91	SAKELL 91-NA-19J	
INTERPACE EFFECTS ON COMPOSITES CONTAINING	AINING ALICHED FIGURS		38		
Hichigan State University	Jasiuk I.	Leons	34704/91 \$335•149	WU 91-NA-131	
TAYLOR-LAYERS IN THE PLANS TURBULINT SHIAR LAY	SHIAR LAYIT		N 24		
Univ of Washington	Dowling 0	03410	10/04/91 \$195,989	MCMICHAEL 91-NA-132	
DETICATION OF CRACKS IN ROTATION CHAIS	S - AY AHALYTICAL AND		N 36		
	Plaut	Saymond	32/04/91 \$616,344	WU 91-NA-124	
SEYNOLDS-AVERAGID AND FAVRE-AVERAGED TURBULLIC. MICHASPER, MICHASEVAND DE-MINDER GHIRD IS	TURBULLIC, MEASURCHENTS IN A		N 36		
Virginia Polytechnic Inst & State Univ	Schetz	Joseph	20/05/91 \$324,453	SAKELL 91-NA-173	
PERSORMANCE IMPROVEMENT OF COMPOSITE ALACTARI	ALRUSART ATMS THROUSH		96	⋖	378,940
Viecens Cast	"derrowaten	Leonard	24/05/91 5231,220	NU 91-NA-178	01/09/91 \$281,220

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MICPOMECHANICS OF THE PROPERTILS AND PLAFOLMANCT OF MICH FEMPERATURE COMPOSITE MATCRIAL SYSTEMS Virginia Polyteconic Inst & state Join	×	N 36 18/06/91 \$328,105	BOYCE 91-NA-197	
AECHANICS DF PERFORMANCE SIMULATION FOR HIGH THEPERATURE COMPOSITE MATERIAL SYSTEMS Virhinia Polytechnic Inst & State Univ	×	4 13/06/91 \$323,105	90YCE 31-NA-198	
005T-STALL CONTGOL OF SWEPT WINGS Vironnia Polytecanic Inst i State Univ Telionis	c. C	N 36 11/90/52 \$257,938	FANT 91-MA-207	
AVISOTROPIC JAHAWE MECHAMICS 40DELING IN METAL NATRIX COMPOSITES Louisiana State University	Geor in	N 12 05/04/91 \$66,000	90VCE 91-NA-127	
DEVILOPMENT OF A TECHNIQUE TO DITERMINE THE MORPHOLDSY 1MN DYNAMICS OF AGOLOMERATES IN CHEMICALLY CLACTING FLUNS Louisiana State University	Tryton	N 36 15/04/91 \$402,372	TISHKOFF 91-na-135	
SMART ACOUSTICALLY NCTIVE SURFAGES FOR FLOW SFPARATION SOUTSOL IN FURGOMACHINGRY Univ of Mississippi	เกษา	N 36 23/05/91 \$110,000	A FANT 91-NA-180	\$25,000 01/09/91 \$110,000
THERMO-MECHANICAL AMALYSIS OF UKIDATION PROTECTIO CANION-CARION COMPUSITES Materials Sciences Corp	m	N 36 23/05/91 \$485,436	80YC≅ 91-NA-176	
THERMOMECHANICAL PROPERTIES OF CERAMIC COMPOSITIS ALTY VIPUL Depositfu matrix yaterials Natoriols Schonger Cord	12	36 05/06/91 \$478,731	80YCE 91-NA-198	
*LUGTRICAL "NERSY TRANSFIR I'V AN ARGUST Fox's Fech University	111	4 397.05751 \$236.423	U SIRKAN 91-NA-164	

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INITIATE START DATE TOT AMT \$198,573 01/09/91 \$198,573 \$99,998 30/09/91 \$99,998 \$88,627 01/10/91 \$280,163 \$132,270 01/10/91 \$274,925 \$118,673 15/09/91 \$118,673 STATUS Program Manage? Proposal # A SAKELL 91-NA-166 91-NA-210 FANT 91-NA-153 91-NA-156 90YCE 91-NA-208 91-NA-157 91-NA-196 MCMICHAEL 91-NA-182 HCMICHAEL 91-NA-167 BIRKAN 3 ₹ 3 TYPE/MONTHS 27/06/91 \$361,143 2 12 93/05/91 \$193,573 N 24 06/05/91 \$148,084 RECEIVED N 24 06/35/91 13/06/91 \$99,998 N 36 27/06/91 \$553,313 54 N 36 10/05/91 \$230,163 N 36 13/05£91 \$274,925 N 17 30/05/21 \$118,673 \$86,227 20 TNUCKY Stabhan Sdwar edward Daniel Parv.: Lorna Jr 31 1006 Hon STABLISTANT JOUNDAPY LAFF? **Juyuko**zturk FOUNDATION FOR THE DIRECT AND TRAUSFORM ELIMENT ACTIONS IN STRUCTURAL OXMAMICS AND CONTROL THOORY Photom Research Associates Inc. Srattzar Hastin ;5 Gibil iib LARGE EDDY SIMULATION OF PACKHARD—FACING STEP FLOW WITH APPLICATION TO CORXIAL JUT COMPUSITIES
LAMFORD UNIVERSITY GPACTURE OF INTERFACES IN ACVANCED COMPOSITE MATERIALS ibson Aline ACTUATORS AND SEMSORS FOR INTELLIGENT STAUCTURES MASSACHUSETTS TUSTITUTE OF TECHNOLOGY MICHOMACHANICAL MODELLING OF MATURAL MATERIALS INVESTIGATION OF THE PHYSICS OF THE TURIDLESS FOCASSING ON VOTER STRUCTURES ... tenford University FRANSITION IN HYPERSONIC ROTHDARY LAYERS dassichusatts institute of Tichnology Bossachusetts institute of Technology Jassachusetts Institute of Technology Tassachusatta Institute of Technology Anssachusetts Institute of Technology MUCLEAR ROCKET PLYME STUDIES utinford University (COMI.) RCITUTITE (AFCAPT)

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STEGATION OF AURUSTY EQUALIONS FOR	TAGHOLORMSYSTOWAL HYPERSONIC		24	«T .	\$85,856
itinford University	נושסדעי	ne ə 0	11790711	SARELL 91NA202	\$174,997
HEASUREMENTS OF STRAINS AT THTERIO? POINTS USING	TS USING X-QAYS		N 36		
Univ of Connecticut	Jor tan	01 6 1	5204.657	91-NA-152	
THREE-SIMENSIONAL LAMINAR HYPPRV-LUCITY	FLOW WITH REACTION		N 24	٥	
Galifornia Institute of Inchnolo,y	Pullin	Oate	98/04/91 \$219,502	SAKELL 91-NA-130	
UXIDATION PROTECTION OF CARRON-CARSON COMPOSITIO	MPOSITIC		N 36		
California Institute of Teannology	Колип	Libieta	04/06/91 \$599.250	807CE 91-NA-186	
RATURE AECHANICAL JEHAVIJR OF	FIBER ABINFORCED CERAMIC		36		
Colifornia Institute of Tochnology	ssneuy	7	05/06/91 \$453,130	807CE 91-NA-189	
ORIGINS OF IMPERFECTIONS IN COMPOSITE NATURIALS	TERIALS		36	⋖.	\$77,100
Johns Hopkins University	Chimenti	Dale	\$243°400	91-NA-143	\$243,400
PAST PARALLEL GEAM TOMOGRAPHY POR TURBULENT Description	ENT COAPUSTION		84 8) Truncon	
cornell University	.ouldin	Frederick	\$5.87.716	91-NA-128	
ruasulenca Montliva			998	≪ ₹ (\$144,844
Cornell University	Lumley	John	\$450, TSO	MCMICHAEL 91-NA-154	01/10/91 \$456.750

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	144537534793		TYPE/MONTHS PECEIVED AMOUNT	STATUS Program Manager Proposal #	INITIATE START DATE TOT AMT
JORPH ATOM MATRIK CHEMISTRY Juan of Virginia	Challed	Liston	v 12 05/04/91 691,898	SURGGRAF 91-NC-153	
.L.GT°DCHFMISTRY ALTH HISH PLEDLUFION Hebrigg University	lindlir	Janet	4 11/04/91 564-655	BURGGRAF 31-NC-158	
DEVTLOPMENT OF PRACTICAL MO TICINTIDES FOR PROJECT PROPERTIES AND SCHAVIOR OF HATCHINES	CONTROL OF THE COURSE	Alchast J.	4 11/04/91 5123•609	HED3ERG 91-NC-159	
ASACTIONS AND SPECTAUSCOPY OF EXCITED WITELESS JALV OF Denver	Clondo	305 PT	R 04 11/04/91 \$35,000	h Perram 91-NC-150	\$35.000 01/07/91 \$35.000
TRANSPINATION COOL.S ULTRAVEOLCT SUL-SEL SILICA DOTICS sel-Tech+ Inc.	A UPTICS To these	טר ז–ער פר	N 24 15/04/91 \$499 ₀ 335	LEE 91-WG-161	
HONLINEAR OPTICS IN SINGLS GRYSTAL HAVAGUISIS OF POSAVIQ AND FHIRD OPDSR OPTICAL MATTRIALS Audurn University	om nesavic micono Thakun	Mrinol	4 12 21/05/51 372,579	D LEE 91-NC-173	
NTOATS HYDROGIN TRAPPED IN 30L1) H2 John of Hawari	, and and	いっきゅつ	H 12 21/05/91 8150,675	BURGGRAF 91-NC-174	
מבאזחנה ביאחרבים במה אכטרטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטט	K] Wetter	Floya	N 06 22/05/91 551,792	A LEE 91-NC-175	\$51,292 01/09/91 \$51,292
Firstmallit im Malicul s Iniv of Florida	, or (loct	Aaupov	23/05/91 23/05/91 548#760	A 3URGGRAF 31-NC-179	\$48,760 01/01/92 \$48,760

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METASTAILLIY IN MOLICULES Univ of Florida	. ortlott	Young	9 30/05/91 \$153,334	BURGGRAF 91-NC-131	
DRGANIC AND IMPRIANIC KISID-KOD STRUCTURUS YOU'L-1 RHMANCED MLO PROPERTIES JAIN OF COLOFIED	2 1,-3 = 11,05 417B Michl	Joset	4 12 03/06/91 \$130,107	LEE 91-NC-134	
PHOTOGENERATED HYDROGEN ATOMS FACH ALKALE HITAL Hydrogen Clusters Univ of Iowa	al aractions in Young	د ۲	n 05/06/91 \$100,587	RURGGRAF 91-NC-189	
SPECTROSCOPIC STUDICS OF MATRIX-ISCLATIS ATOIS. LOUS, POSSIPLE WISH IMERSY DENSITY SYSTIMS Univ of Florida	S. CLUSTIRS INA Vila	437610	N 12 05/06/91 5223,111	BURGGRAF 91-NC-190	
SID-WIMETIC ADUT S ID UPTICAL AND LEECTROMIC OUNLY OF AFLIONA	\$ sautos Calvert	ince	12 13/06/91 373,533	HEDBERG 91-NC-193	
YULTI-INVASTISAT)A RESCARCH REGRAM (MIRR) THE ULTRASTRUCTURAL AATIRIALS JAAV of Florids	r SCT:NCr ve Hench	7,7,7	12/06/91 12/06/91 \$337,038	ERSTFELD 91-NC-195	
WATHIX STAUTLIBATION OF THEOG TIC SPECIES IN PAI COBEBECH Ltd.	IN AMMONIUA PERCHLORAT' Vienekon	425	N 12 16/06/91 \$99,668	BURGGRAF 91-NC-198	
MO4-LINTAR DPTICAL FFECTS IN AMLICULES Jaiv of Florido	3=741-244	Acuro	N 21/06/91 544,109	BURGGRAF 91-NC-200	
TEJOSENAFIO JUNEACE, PROCESS EL TILLOLOJY UNAVORESENTANDES	5312840	20.70	12 23/06/91 3175#014	BURGGRAF 91-NC-204	

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SPECTASSCOPY OF ATTAL-HYDROGEM CLUSTIRS California institute of Tachnalony	Mitchio	4 75/06/91 8345,374	SURGGRAF 91-NC-187	
STUMY OF DRYING SHITUKAGE IN STLECT JELS Stemson University	Surtrand	4 19/04/91 5107-431	ERSTFELD 91-NC-163	
JYNTHESIS AND REACTIVITY OF LATLY TRANSITION ASTAL AMIBLE 1MID. AND HOLFCHLIR AND SOLID STATE HITAIDE COMPOUNDS Cornell University	5.4.7	4 30/05/91 1118,002	0 HEDBERG 91-NC-190	
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Univ of Utah	Virkar	Anıl	\$468,223	91-NE-121	
FRACTURE MECHANICS AND QUANTITY Temperature failure of Ceramic	QUANTITATIVE FRACTOGRAPHY APPLIED TO HIGH Ceramic Materials		N 36 08/04/91	SCHIOLER	
;		7	\$300,000	91-NE-125	
SOL-GEL PROCESSING OF MULTI-C	MULTI-DIMENSIONALLY REINFORCE CERAMIC MATRIX		36	0	
	Chou	Tsu-wex	\$388°677	SCHIOLER 91-NE-127	
CREEP DAMAGE MECHANISMS IN CO	COAT:D-FIDER GLASS-CERAMIC COMPOSITES		36	a	
brown University	Nutt	Staven	\$192,495	SCH10LER 91-NE-139	
STUDY OF INFORMATION PROCESSING AND INTERCONNECT	ING AND INTERCONNECT ARCHITECTURES		N 12	≪ () ← (\$41,322
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FIBER MATRIX INTERACI DNS IN	ONS IN CERAMIC COMPOSITES		36	ā	
SRI International	Johnson	Sylvia	\$593,568	SCHIOLER 91-NE-148	
ELECTRONIC STRUCTURE CALCULATIONS OF	TIONS OF HYBIRD MAGNETIC-SEMICONDUCTOR		36 36		
universations of Missouri	Satpathy	Sashi	\$146,599	PORKENKE 91-NE-151	
HIGH TERPERATURE RHFOLOGY OF	CONTINUOUS BINTH-RENIEGACED CERAMIC		N 36	0	
Univ of Wisconsin	Cooper	Reid	\$393,900	3ch10cen 91-NE-152	
SYNTHESIS OF NANOCHYST LLINE	N3-ALUMINIDES 3Y LAS"3 A9ALTION		N 36	A nace	\$160,839
Univ of Illinois	Lepent P	7	\$495,380	54	\$2,025,380

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SUPERLATTICE TUNNELING TRANSISTORS ##### University	AND CIRCUITS RAND	XerX	N 36 16/05/91 \$625,647	WITT 91-NE-159	
PHOTOREFRACTIVE o	FIBER OFFIC DEMULTIPLEXERS Andorson	Oana	N 03 20/05/91 \$20.812	A CRAIG 91-WE-164	\$20,812 01/06/91 \$20,812
INVESTIGATION OF THE HENT EXCHANGE EXCHANGE FOR AN ORIFICE PULSE-TULY OF COLORIDO	THE HEAT EXCHANGE IN A REGINERALLY" HEAT DRIFTER PULSE-TULSE REPRISHMATOR TRANSCHAUS	Klaus	N 23/05/91 451,129	D WEINSTOCK 91-NE-169	
THE CHARGING EFFECT IN HIGH TCC) SUPERCONDUCTING Univ of Rochester	UPERCONDUCTING THIN FILMS Sonolowski	80 8 23	N 24 23/05/91 \$175,000	MEINSTOCK 91-NE-170	\$90,000 01/10/91 \$175,000
SCIDGGE'G ALLOYS FOR OPTOCL'CTRONIC UNIV OF BELINGSFE	C DEVICES Rolodzey	いかせたつ	N 23/05/91 \$54,375	POHRENKE 91-NE-172	\$26,690 01/09/91 \$54,375
1991 INTERNATIONAL SEMICONOUCTOR DEVICE (ISDRS-91) Univ of Virginia	HEVICE RESGARCH SYMPOSIUM Shur	Michael	N 05/06/91 05/06/91 \$5.000	POMRENKE 91-NE-179	
SEMICONDUCTOR DEVICE-LOADED AND CONFORMAL DIFFRACTIVE GRATING PUrjue University	NFORMAL MILLIMATAR WAVE Wedd	ж с с	36 11/06/91 \$365,990	WITT 91-NE-182	
MOLECULAR BEAM EPITAXY (MME) GROWTH OF Heterostructures Got Nonliveat Optics Univ of Arizona	IM OF NOVEL SEMICOMOUCTOR TICS Khitrova	6alinə	N 11/06/91 \$251 ₀ 265	POMRENKE 91-NE-183	
DEVELOPMENT OF ST. LIGHT EMITTING T WIRES Univ of Tokes	EWITTING TECHNOLOGY SASTS ON ST GUANTUR Reens	018-600	N 25 15/06/91 \$199,988	POTRETE 91-NE-188	\$99\$998 15709791 \$199\$988

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SILIGE	g	06/05/91 \$3,252,043	SCHIOLER 91-NF-147
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Oynes	Robert	\$6706791	WEINSTOCK
OPTOELECTRONICS SASED ON SIGE/SI HETEROSTRUCTURES			¥1-NE-195
Univ of California		R 36	
	×	26/06/91 \$551,000	WITT 91-WE-201
MATRIX AND INTERFACE DEFORMATION IN HIGH TEMPERATURE INTERMETALLIC COMPOUNDS AND COMPOSE.		;	107-34-16
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h Corporation	<		*
Lackey	**	\$521,840	SCHIOLER 91-NF-140
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PTIAXIAL WROWTH DE BALLEMM ANSTNIDE AND GERANTUM STLICON-ON-INSULATORS North Carolina State University Ka	ATUM OR STELEON AND ACTUALLY.	ปังตุวเกตร์สภาพ	N 36 16/05/91 \$397,172	POMRENKE 91-NE-158	
SCITNGS AND FECHNOLOSY OF ALTTANATINS CYCLIC 10 OFPOSITION OF METALS AND SUMICOMUNITIOS Worth Carolina State University	C STLICTIVE AREA	Arnold	N 23/05/91 \$959,230	WITT 91-NE-171	
AME GROWIN AND CHARACTERITATION OF SIGE FOR OPPLECATIONS WOUND ROSEARCH LADORATORY	OPTOCLECTROWIC Thompson	Phillip	N 12706/91 \$106,600	A POMRENKE 91-ne-187	\$33,000 01/09/91 \$106,000
LLIGTRICALLY-100RESSABLE POLYWLR-BASED SPATIAL LIGHT MODULATOR Detmon Systems Inc	LISHT MODULATOR Lie	Sin-200	N 36 23/05/91 \$379,395	CRAIG 91-NE-167	
VUMTRICAL SIMULATION OF MOCVD IN MICROFLICTPONICS PROCESSING	ICS MATCKIALS Hryyappan	×	N 36 11/06/91 \$296,453	POMRENKE 91-NE-184	
ADANTUM DEVICES AND STRUCTURES ACTIONALIFIC PRESCRIPTARY INC.	û.rus.r	Harold	N 24 03/05/91 \$499,370	D WITT 91-NE-150	
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INITIATE START DATE TOT ANT \$148,580 01/10/91 \$456,574 \$133,125 01/10/91 \$133,125 PROGRAM MANAGER PROPOSAL # ROSENSTEIH 91-NE-138 A ROSENSTEIN 91-NE-142 SCHIOLER 91-NE-123 SCHIOLER 91-NE-122 D CRAIG 91-NE-130 POMRENKE 91-NE-137 ROSENSTEIN 91-NE-163 ROSENSTEIN 91-NE-161 POMRENKE 91-NE-144 STATUS TYPE/MONTHS RECEIVED 4 24 16/05/91 55,000,000 29/04/91 1 15/05/91 55,000,000 N 12 13/04/91 \$2,500 N 36 13/04/91 5470,527 7 36 96/04/91 N 36 03/04/91 \$419,945 4 12/04/91 12/04/91 \$5,000 3 3704791 23704791 *2,000 1294,160 Shantikumir Abreham Richard Morris P6-11 John Jona Jonn STUDY OF CREEP CRACK NUCLEATION AND GROWTH IN GRAMICS AND SURAMIC MATRIX CUMPOSITIS
Southwest Research Institute PUBANTUA MICHANICAL APPROAGN TO UNDERSTWEETE, TILLADITALINGCHULALINGCHANICAL PROPERTIES OF THE PAPENTICS (Froming destare University) PAVE STISMTOR (83 FAILORID INTERFACIS FOR METAL-TATOIX COMPOSITUS-FUNCHATIAL SOLUTIONS FARM 145 AFLITING ON MATERIALS FOR DPTICAL INFORMATION PROCESSING 17.7. 18073 AFGHAWICS AND MCCAAVISM OF CRILP COACK SID4TH IN CORRASCO COMPOSITES AND IMPIRAREMENTATION COMPOSITE RICETTAL UNIV OF MASSICHUSSITES STITCTOFFE THINGS STRUCTURED STRUCTOR PROBLEM LITTLE CONVICT isll inc : tall ince antities THEN MILMS: STRESSIS AND MECHANICAL PORPERTY'S III fexes A and 4 kereeren foundation Anterills Research Society Astamilis Research Cockaty UCVICTS
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